

S/066/60/000/006/005/009
A053/A029

Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Com-
pressors

the edge of the membrane. This arrangement gives the best temperature compensation and the highest sensitivity of the indicator. An alternative arrangement is shown under III, in which however the distance between the two tensiometers is too large, which affects unfavorably the temperature compensation. In the same laboratory a resistance strip pickup, developed by VNIKhI, has been tested with a 19 mm x 0.4 mm membrane. Tests revealed absence of deformations within the limits of 0 to 16 atmospheres and stability of amplitude characteristics at temperatures ranging from 20 - 100°C. This pickup is used in the KhOKB laboratory for investigating hermetically sealed compressors at 1,500 rpm. The article mentions also pickups for determining pressure fluctuations in the suction and compression cavities of the cylinder head. A special solenoid device described in the article has also been developed in order to obtain pressures necessary for determining the scale of the oscillogram. The laboratory of KhOKB produces the wire tensiometers, which are employed in all pressure pickups. There are 2 diagrams, 1 graph and 5 Soviet references.

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S/066/60/000/006/005/009
A053/A029

Tensiometric Pressure Pickups for Hermetically Sealed Refrigerating Compressors

ASSOCIATION: Khar'kovskoye optyno-konstruktorskoye byufo i zavod torgovogo mashinostroyeniya (Khar'kov Experimental Designing Bureau and Trade Machinery Plant)

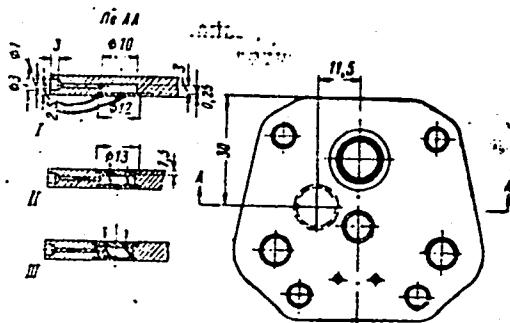


Figure 1:

Tensiometric pressure pickups for small compressors

Card 4/4

26.2182
S/179/61/000/002/014/017
E081/E141

AUTHOR: Shvarts, I.A. (Leningrad)

TITLE: The hydrodynamic stability of a lubricating layer

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1961, No.2, pp. 120-123

TEXT: The hydrodynamic stability of a lubricating layer between a bearing and an eccentric journal is investigated theoretically (see Fig.1, in which AC is the lubricating layer, OO' is the eccentricity, and B is the point of minimum clearance between the journal and the bearing). It is assumed that the journal and bearing are smooth rigid cylinders and that the lubricating liquid is incompressible. On this basis, the differential equations governing the flow in the layer are set up and solved to give an approximate formula for the Reynolds number at which hydrodynamic instability sets in. There are 3 figures and 5 references: 4 Soviet and 1 English. The English language reference reads as follows:

Ref.1: T.A. Cole, C.T. Hughes. Oil flow and film extent in Cen. 1/2 complete journal bearings. Engineer, 1956, v.201, No.5225.

|C

S/179/61/000/002/014/017
E081/E141

The hydrodynamic stability of a lubricating layer.

SUBMITTED: June 14, 1960

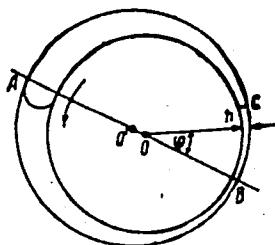


Fig. 1

Card 2/2

I 32447-65 EWT(1)/EWP(m)/EPA(s)-2/EWT(m)/EPA(sp)-2/EPF(c)/EPF(n)-2/ENG(v)/EWA(d)/
EPR/EPA(w)-2/FCS(f)/T-2/EWP(t)/EPA(bb)-2/EWP(b)/EWA(m)-2 Pd-1/Pab-10/Pe-5/Pr-4/
Ps-4/Pt-10/Pi-4/Pu-4 IJP(c) JD/MM/JG/DJ
ACCESSION NR: AR5003995 S/0277/64/000/010/0056/0056

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i
raschet detaley mashin. Gidroprivod. Otd. vyp., Abs. 10.48.334

AUTHOR: Shvarts, I. A.

TITLE: Magnetohydrodynamic lubricating layer

CITED SOURCE: Sb. Fizika. Dokl. na 22 Nauchn. konferentsii.
Leningr. inzh.-stroit. int. L., 1964, 40-43

TOPIC TAGS: magnetohydrodynamics, lubricating layer, liquid metal,
lubricant, ionized gas lubricant, conducting gas, conducting liquid
metal, bearing

TRANSLATION: The question is discussed of the movement of a
conducting lubricating layer in a cylindrical bearing in the presence
of an electric and magnetic field. Such a lubricant, in the form of
a liquid metal or an ionized gas, is used at high temperatures and in
this case is a conductor of electric current. The movement of an
incompressible conducting liquid in the gap between two eccentrically

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ACCESSION NR: AR5003995

located cylinders was studied. It was determined that the pressure gradient in the magnetohydrodynamic lubricating layer can be increased by an increase in the Hartmann number and by a difference in potentials. Along with this, the supporting force of the lubricating layer is increased. The supporting capacity of the bearing can be increased for a lubricant in the form of an ionized conducting gas under determined relationships between the hydrodynamic and electromagnetic parameters.

SUB CODE: MM, ME ENCL: 00

Card 2/2

SHVARTS, I.G., insthener.

Surface grinding of elliptic cylindrical surfaces without copying devices.
(MIRA 6:12)
Vest.mash. 33 no.11-78-79 N '53.
(Grinding and polishing)

AUTHOR: Shvarts, I. G. (Engineer). 100-57-12-5/11
TITLE: Shortcomings in the System of Preventive Maintenance for
Excavating Machinery. (O nedostat'kakh sistemy planovo-
predupreditel'nogo remonta zemleroynikh mashin).
PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, Nr.12. pp.21-22. (USSR).
ABSTRACT: The author comments on the article by A. P. Degtyarev
and A. K. Reysh (published in "Mekhanizatsiya Stroitel'-
stva", No.4, 1956) on the maintenance system of building
excavators.
AVAILABLE: Library of Congress.

1. Machinery 2. Literature-Review

Card 1/1

LEBEDINSKIY, M.B.; SHVARTS, I.I.; FRENKEL', G.A.

Low-voltage equipment of the stadium. Gor. khoz. Mosk. 30 no.9:
23-27 S '56. (MLRA 9:12)

(Moscow--Stadiums) (Sports--Officiating) (Electric instruments)

SHVARTS, I.M., inzh.

Every enterprise can and should increase the power coefficient
in its electric network. Kozh.-obuv.prom. no.2:31-32 F'59.
(MIRA 12:6)

(Factories--Electric equipment)

1. SHVARTS, I. M.
2. USSR (600)
4. Psychology
7. Does psychiatry need psychology? Remarks on I. F. Sluchevskiy's article "On some urgent problems in psychiatry." Zhur.nevr. i psikh. No. 12 - 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

SHVARTS, I.M., inzh.

Indicators of the movement of valves in refrigeration compressors.
Khol. tekhn. 38 no. 1:27-28 Ja-F '61. (MIRA 14:4)

1. Khar'kovskiy zavod torgovogo mashinostroyeniya.
(Air compressors)

s/0197/64/000/004/0030/0037

ACCESSION NR: AP4035742

AUTHOR: Shvarts, K. (Candidate of physico-mathematical sciences)

TITLE: Radiation phenomena in ionic crystals (Presented at the Annual Meeting of the AN Latv. SSR, 24 February 1964)

SOURCE: AN LatSSR. Izvestiya, no. 4, 1964, 30-37

TOPIC TAGS: energy transfer, impurity, structural defect, carrier transfer, radiation defect, energy accumulation, optical absorption, radioluminescence, electron paramagnetic resonance, electron emission

ABSTRACT: This paper is chiefly a summary of the properties, production, and uses of ionic crystals and a survey of the work performed by a laboratory devoted to the physics of ionic crystals, established in 1962 by the Institut Fiziki AN Latviyskoy SSR (Institute of Physics, AN Latvian SSR). The basic objectives of this laboratory are studies of: 1) energy transfer from the basic material to impurity and structural defects; 2) transfer of electrical charges through such crystals, 3) the microstructure of impurity centers and its change through radiation; and 4) the accumulation of energy and the formation of radiation defects. Work on these problems is leading to the development of new, efficient

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ACCESSION NR: AP4035742

phosphors for scintillators and dosimeters of nuclear radiation, and it will produce more effective nuclear-radiation counters. Methods of investigation include: 1) electron paramagnetic resonance; 2) optical absorption and radio-luminescence; 3) electron emission; 4) optical and electron microscopy of irradiated samples; and 5) high-speed optical processes. The author indicates that advances have been made (since the laboratory was opened) in the fields of all the indicated objectives and by all the listed techniques. The workers at the laboratory have published the first results of their investigations in a collection entitled "Radiation Physics, I. Ionic Crystals," published by the AN Latvian SSR. Many reports and papers have been presented at scientific conferences.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 01Jun64

ENCL: 00

SUB CODE: SS,NP

NO REF SOV: 038

OTHER: 009

Card 2/2

SHVARTS, Kh. I., dotsent

[Automotive transportation contracts in Soviet civil law; abstract
of a dissertation submitted for the degree of doctor of juridical
sciences] Dogovory avtomobil'noi perevozki po sovetskому grazhdan-
skomu pravu; avtoreferat dissertatsii, predstavленной на соискание
ученой степени доктора юридических наук. Moskva, Institut prava
im. A.IA. Vyshinskogo AN SSSR, 1956. 23 p. [Microfilm] (MLRA 10:1)
(Transportation, Automotive—Law and legislation)
(Contracts)

SHVARTS, Kh.I., doktor yuridicheskikh nauk

Legislation on the conservation of nature in the Moldavian S.S.R.
and its practical application. Okhr.prir. Mold. no.1:24-33 '60.
(MIRA 15:2)

(Moldavia--Conservation of natural resources)

SHVARTS, Kh.I. [Svarcs, il.]

"Handbook on formulas and color matter for the manufacture of
wallpaper and colored decorative papers" by P.V. Prober.
Reviewed by K.I. Shvarts. Bum.prom. 37 no.6:31 Je '62. (MIRA 15:6)

1. Glavnnyy inzh. Vtoroy Rizhskoy bumazhnay fabriki.
(Paper industry)
(Dyes and dyeing--Paper)

SHVARTS, K. K. Cand Phys-Math Sci -- (diss) "Processes of extinguishing luminescence in crystalline phosphorus basic halides,"
Tartu, 1960, 13 pp, 300 cop.(No Affiliation Given - Ed) (KL, 42-60, 111)

SHVARTS, E. K., LUSHCHIK, Ch. B., YAEK, I. V., LUDIYA, G. G., and LUSHCHIK, N. Ye

Physical Processes in Alkali Halide Phosphors
Activated by Mercury-Like Ions

Ch. B. Lushchik, I. A. Jack, G. G. Ludja, N. E. Lushchik, and K. K. Schwarz
Physics and Astronomy Institute, Academy of Sciences of the Estonian S.S.R.,
Tartu, U.S.S.R.

A number of alkali halide phosphors activated by monovalent and divalent ions having the electronic configuration of neutral mercury were prepared. Diffusion and precipitation of activator ions were investigated as were absorption, emission, and radiationless processes within the impurity center. Energy transfer by means of excitons and electron-hole pairs between the luminescent center, the host crystal and color centers were also studied.

Report presented at the 117th Meeting of the Electrochemical Society, Chicago,
1-5 May 1960.

LUSHCHIK, Ch.B.; LUSHCHIK, N.Ye.; SHVARTS, K.K.

Electronic and vibrational processes in the luminescence centers
of ionic crystals. Opt. i spektr. 9 no.2:215-222 Ag '60.
(MIRA 13:8)

(Ionic crystals)

SHARTS, K.K.

84673
S/051/60/009/002/011/013/XX
E201/E491

24.3640 2209, 1138, 1144

AUTHORS: Lushchik, Ch.B., Lushchik, N.Ye. and Shearts, K.K.
TITLE: Electronic-Vibrational Processes in Luminescence
Centres of Ionic Crystals

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No.2, pp.215-222

TEXT: The paper was first presented at the Eighth Conference on Luminescence held in October 1959 in Minsk. The authors report a detailed study of electronic-vibrational processes in luminescence centres of alkali-halide crystals activated with Hg-like ions. The luminescence and absorption spectra were recorded and the luminescence quantum yield was found as a function of the exciting-light frequency ν_e and temperature. This was done for KCl-In, KBr-In, KCl-Ga, KBr-Ga, KCl-Tl, KBr-Tl, NaCl-Tl, KCl-Pb, KCl-Sn, KBr-Sn and other crystals. Some of the results are given in Figs.1 to 4. Fig.1 shows the luminescence spectra of NaCl-Tl at 550°K excited with 254 m μ (curve 1), 280 m μ (curve 2) and 289 m μ (curve 3). Fig.2 gives the absorption and luminescence spectra of NaCl-Tl (1), KCl-Tl (2), NaCl-Pb (3), KCl-Pb (4) and KBr-Pb (5). Fig.3 shows the energy diagrams of KCl and KBr crystals activated with Tl⁺, Pb⁺⁺, In⁺ and Sn⁺⁺. Fig.4 gives the quantum yields of luminescence of NaCl-Tl at

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84678

S/051/60/009/002/011/013/XX
E201/E491

Electronic-Vibrational Processes in Luminescence Centres of Ionic Crystals.

580°K (1a) and KCl-Tl at 600°K (1b) as a function of the exciting-light frequency; curves 2 and 3 represent, respectively, the absorption and luminescence spectra of NaCl-Tl (a) and KCl-Tl (b). It was found that radiative and radiationless transitions occurred in luminescence centres after equilibrium was reached between the vibrational energy distribution in a crystal and the same distribution in excited centres. The quantum yield depended step-wise on Ψ_e : within individual electronic-vibrational absorption bands the yield was independent of Ψ_e , but it was different for different absorption bands. There are 4 figures, 1 table and 45 references: 35 Soviet, 9 English and 1 German.

X

SUBMITTED: November 30, 1959

Card 2/2

23599

S/081/61/000/008/003/017
B110/B202

24.3500 (1137, 1138, 1395)

AUTHORS: Shvarts, K. K., Vale, G. K., Zunde, B. Ya.

TITLE: Study of non-emitting transitions in the luminescence centers of alkali halide crystal phosphors

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 8, 1961, 32, abstract 85 234 (8B234) (Tr. In-ta fiz. i astron. AN EstSSR, 1960, no. 12, 77 - 110)

TEXT: The authors studied the non-emitting transitions in the luminescence centers of the NaCl, KCl, KBr-base phosphors which had been activated by means of the ions Tl^+ , Pb^{2+} , In^+ , Sn^{2+} . The possible mechanism of thermal transitions is discussed. The analysis of the experimental results shows that the thermal transitions take place according to the concepts of J. Frenkel (Phys. Rev., 1931, 37, 17; 1276) and N. Mott (Proc. Roy. Soc., 1938, 167, 384). [Abstracter's note: Complete translation.]

Card 1/1

~~SVARCS~~ SVARCS, K.; VULFSONE, E., red.; SILINS, V., tekhn. red.

[Chemistry of light; photochemical reactions] Gaismas kimija;
fotokimiskas reakcijas. Riga, Latvijas Valsts izdevnieciba,
1961. 85 p. (Photochemistry)

LUSHCHIK, Ch.B.; LIYD'YA, G.G.; LUSHCHIK, N.Ye.; SHVARTS, K.K.; YAEK, I.V.

Physical processes in alkali halide crystal phosphors activated by
mercury-like ions. fiz.tver.tela 3 no.4:1176-1184 Ap '61.
(MIRA 14:4)

1. Institut fiziki i astronomii AN Estonskoy SSR, Tartu.
(Phosphors)

LUSHCHIK, Ch.B.; SHVARTS, K.K.

Second conference on the physics of alkali halide crystals. Opt.i
spektr. 11 no.4:560-562 0 '61. (MIRA 14:10)
(Alkali metal halide crystals--Congresses)

9,4160 (3201, 2804 only)
24,3500 (1137, 1138, 1395)

20823
S/048/61/025/003/011/047
B104/B201

AUTHORS: Shvarts, K.K., and Vale, G.K.

TITLE: Sensitized luminescence of KCl-Pb,Mn phosphors

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya,
v. 25, no. 3, 1961, 343 - 344

TEXT: This is a reproduction of a lecture delivered at the 9th Conference on Luminescence (Crystal Phosphors), which took place in Kiev from June 20 to 25, 1960. In continuation of an earlier work (Ref. 1: Shvarts K.K., Zirnits U.A., Tr. In-ta fiz. i astron. AN ESSR, No. 11, 3 (1960)), the authors of the present paper studied the migration of resonance energy in the KCl-Pb,Mn phosphor. It is pointed out in the introduction that electron transitions in Mn⁺⁺ ions are quadrupole transitions, and practically do not appear in the absorption. The energy transfer from Pb⁺⁺ ions to Mn⁺⁺ ions probably takes place by dipole-quadrupole resonance. The above mentioned phosphor was examined for the absorption spectrum, the emission spectrum, and the excitation spectrum, the luminescence-quantum transition and its dependence of the frequency of exciting light and of temperature.

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20823

S/048/61/025/003/011/047

B104/B201

Sensitized luminescence of ...

As may be seen from Fig. 1, the excitation spectrum of manganese coincides with that of lead. This, is evidence of the fact that the energy initially absorbed by the lead ions is transferred to the manganese ions. The authors further reached the conclusion that the spectral characteristic of the lead centers is not affected by Mn in the case of low concentrations of lead (0.03 mole%) and manganese (0.3 mole%). It was further found that the luminescence-quantum yield of manganese, on an excitation in the absorption band of lead, which corresponds to the $^1S_0 \rightarrow ^3P_1$, transition in the lead ions, does not depend upon the frequency of the exciting light. This means that, as far as the sensitized luminescence of Mn^{++} is concerned, the Vavilov law is satisfied. The luminescence of manganese was found also to be excited in the shortwave absorption band of the lead centers by the $^1S_0 \rightarrow ^1P_1$ transition. It was recognized by a study of the temperature dependence of the luminescence-quantum transitions in the phosphor under consideration (Fig. 2) that radiationless transitions occur in the lead ions, and that the energy transfer from the lead ions to the manganese ions takes place after the oscillations of the excited lead centers

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Sensitized luminescence of ...

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B104/B201

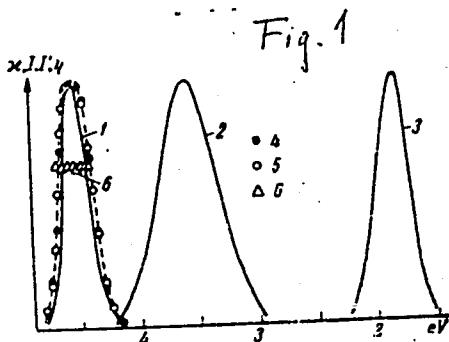
in the surrounding crystal lattice have reached a state of equilibrium. In the temperature range from 180°K to 430°K the probability of an energy transfer of Pb⁺⁺ ions to Mn⁺⁺ ions does not depend on temperature. Microscopic analyses revealed that the luminescence of Mn is particularly observable on the defects of the crystal lattice, where the lead- and manganese concentration is higher than average. This is very important for the production and the processing of good luminophores. Ch.B. Lushchik is thanked for his assistance. There are 2 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The references to English language publications read as follows: Klick C., Schulman J., J.Opt.Soc.America, 42, 910 (1952); Dexter D., J.Chem.Phys., 21, 836 (1953) ✓

Card 3/5

20823
S/048/61/025/003/011/047
B104/B201

Sensitized luminescence of ...

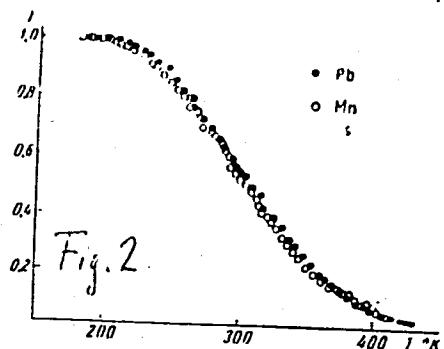
Legend to Fig. 1: Spectral characteristic of KCl-Pb,Mn phosphors (0.03 mole% Pb and 0.3 mole% Mn). 1) absorption spectrum; 2) lead emission spectrum; 3) manganese emission spectrum; 4) spectrum of excitation luminescence of lead; 5) spectrum of excitation luminescence of manganese; 6) relative quantum yield of manganese luminescence.



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Sensitized luminescence of ...

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B104/B201



Legend to Fig. 2: Temperature dependence of luminescence intensity of lead and manganese (excitation with the 265 m μ Hg line).

Card 5/5

SHVARTS, K. [Svarts, K.]; FELDMANE, I.

Microscopic studies of the defects in alkali-halogencus crystals by
the evaporation method. Izv. AN Latv.SSR no.9:57-59 '63.
(MIRA 16:12)

1. Institut fiziki AN Latviyskoy SSR.

L 20762-65 EEC(b)-2/EWT(l)/EWT(m) DIAAP/IJP(c)/BSD/SSD/AFWL/AEDC(b)/AS(mp)-2/
ACCESSION NR: AT5000395 AFMD(c)/ESD(t) S/3119/64/000/001/0003/0013

AUTHOR: Shvarts, K.K., Lusis, D.Yu., Ekman, Yu.A.

B+1
TITLE: Study of the radioluminescence of alkali halide crystals in the horizontal channel
of a reactor.

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964. Ionny*ye
krystally* (Ionic crystals), 3-13

TOPIC TAGS: alkali halide crystal, radioluminescence, nuclear reactor, neutron bombard-
ment, thermoluminescence, thallium activator

ABSTRACT: The purpose of this work was to study the intensity of radioluminescence, the kinetics of the flare-up of radioluminescence, and the thermoluminescence of the crystals KC1-T1, KBr-T1, KI-T1, and CsI-T1 in the range 300-600K excited by radiation from the horizontal channel of an IRT reactor. The x-ray luminescence of these crystals was also investigated. The flux used at the exit of the channel was 6×10^8 n/cm² sec. for thermal neutrons, 10,000 rad/hr. for fast neutrons, and 7800 rad/hr. for gamma rays. The thermal capacity of the reactor was 1500 kW. It was found that the contribution of thermal neutrons to the radioluminescence was negligible, and that the luminescence intensity was

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L 29762-65
ACCESSION NR: AT5000395

2

proportional to the total dose of fast neutrons and gamma rays. Radioluminescence and thermoluminescence differed only slightly at temperatures above room temperature, and hence the processes of energy transfer from the base substance (alkali halide) to the activator (thallium) also differed slightly under the excitation conditions studied. Orig. art. has: 10 figures.

ASSOCIATION: Institut fiziki AN Lat.SSR (Physics Institute, AN Lat.SSR)

SUBMITTED: 18Mar64

ENCL: 00

SUB CODE: NP, OP

NO REF SOV: 013

OTHER: 002

Card 2/2

L 20761-65 EEC(b)-2/EPF(c)/EPF(n)-2/EWT(1)/EWT(m) Pr-4/Pu-4 IJP(c)/
AEDC(b)/BSD/AFWL/SSD/AS(mp)-2/AFMD(c)/ESD(t) GG
.ACCESSION NR: AT5000397 S/3119/64/000/001/0027/0033

AUTHOR: Shvarts, K. K., Kristapson, Ya. Zh.

B71

TITLE: Thermoluminescence of KC1 and KC1-T1 crystals irradiated in a reactor

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964. Ionnye
kristally* (Ionic crystals), 27-33

TOPIC TAGS: alkali halide crystal, thermoluminescence, thallium activator, nuclear
reactor, neutron bombardment, radioluminescence

ABSTRACT: KC1 and KC1-T1 crystals were irradiated in the vertical experimental chan-
nels of an IRT reactor in the immediate vicinity of the active zone with a thermal neutron
flux of $6 \times 10^{12} \text{ n/cm}^2 \cdot \text{sec}$; a fast neutron flux of approximately $10^{12} \text{ n/cm}^2 \cdot \text{sec}$, and
gamma radiation of about 6000 r/sec. The thermoluminescence was investigated in the
range 300 - 600K and recorded with a unit consisting of an FEU-18 photomultiplier, a DC
amplifier, and an EPP-09 potentiometer. It was shown that irradiation of the crystals
creates deep capture levels ($T_{\max} \approx 554\text{K}$) which are manifested by additional absorption
in the ultraviolet and indicate major lattice disturbances. Spectra of additional absorption
of KC1 and KC1-T1 differ from luminescence, and depend on the thallium concentration,

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L 20751-65

ACCESSION NR: AT5000397

flux intensity (n/cm^2 sec), and integral flux (n/cm^2) of the reactor radiation. Radioluminescence induced by neutrons was observed in all the crystals. The capture centers created in the crystals by small integrated fluxes of reactor radiation at room temperature do not differ from those produced by x-rays and gamma rays. Orig. art. has: 6 figures.

ASSOCIATION: Institut fiziki AN Lat.SSR (Physics Institute, AN Lat.SSR)

SUBMITTED: 18Mar64

ENCL: 00

SUB CODE: OP, NP

NO REF SOV: 009

OTHER: 007

Card 2/2

L 20765-65 EWA(k)/EWT(l)/EWT(m)/EPF(c)/EPF(n)-2/EEC(t)/EEC(b)-2
Pr-4/Pu-4/Pb-4 IJP(c)/BSD/ASD(a)-5/AS(mp)-2/AFMDC/ESD(t) GG
ACCESSION NR: AT5000401 S/3119/64/000/001/0073/0088

AUTHOR: Shvarts, K.K., Aluker, E.D., Mezina, I.P., Grube, M.M.

TITLE: Thermal quenching of the x-ray luminescence of some alkali halide crystals

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964.
Ionnye kristally* (Ionic crystals), 73-88

TOPIC TAGS: alkali halide crystal, x-ray luminescence, luminescence activator,
thermal quenching, neutron bombardment, ionizing radiation, thermoluminescence

ABSTRACT: This paper constitutes the beginning of a series of papers on the quenching of the luminescence of alkali halide crystals activated by mercurylike ions. The purpose of these investigations was to study quenching processes as a function of the mode of excitation (x, beta and gamma rays, neutrons), type of activator (Tl, Pb, In, etc.), and its concentration. The program also included a study of scintillation. In this paper, the authors studied the temperature dependence of the intensity of steady luminescence, of the flare-up of x-ray luminescence, and the thermoluminescence in the range 100-700K. In order to study the effect of x-irradiation on the state of the activator, the flare-up and the excitation spectrum of the activator cross section were measured. Grown crystals of KCl-Tl, KBr-Tl, KI-Tl, and KI-In were employed.

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L 20765-65
ACCESSION NR: AT5000401

Basic assumptions are made concerning the mechanism of quenching of x-ray luminescence, mechanism of transfer of energy to the activator centers, and the nature of the flare-up of luminescence, but the need for additional data is emphasized.
Orig. art. has: 14 figures and 2 tables.

ASSOCIATION: Institut fiziki AN Lat. SSR (Physics Institute, AN Lat. SSR)

SUBMITTED: 18Mar64 ENCL: 00 SUB CODE: OP, SS

NO REF SOV: 021 OTHER: 013

Card 2/2

L 19811-65 EMT(1)/EEC(b)-2 IJP(c)/AFWL/AS(mp)-2/ESD(gs)

ACCESSION NR: AT5000402

S/3119/64/000/001/0093/0103

B + 1

AUTHOR: Shvarts, K.K., Layzan, V.B., Lyushina, A.F.

TITLE: Electron spin resonance and luminescence¹ of solid solutions of sodium chloride and manganese

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 1, 1964. Ionny*ye kristally* (Ionic crystals), 93-103

TOPIC TAGS: Luminescence, electron spin resonance, EPR spectrum, solid solution, manganese impurity, sodium chloride crystal, luminescence center, crystal irradiation

ABSTRACT: An attempt was made to study the structure of impurity centers of manganese and their change under the influence of various factors (heat treatment, decomposition, irradiation with x and gamma rays) by means of the electron paramagnetic resonance (ESR) and by optical methods. Grown NaCl crystals containing MnCl₂, TlCl, MnF₂, CdCl₂, and PbCl₂ in amounts of 0.1-0.3 mole % were used. The ESR of NaCl · MnCl₂ was found to coincide with data in the literature. The x-ray luminescence of manganese and its sensitized luminescence in crystals subjected to heat treatment and untreated crystals were compared. Preliminary irradiation with x or gamma rays was found to decrease the intensity of x-ray luminescence. On the basis of the spectra obtained, the authors discuss the

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ACCESSION NR: AT5000402

microstructure of manganese centers, the luminescence centers of manganese, the decomposition of solid solutions of sodium chloride and manganese, and the effect of radiation on the manganese centers. Orig. art. has: 8 figures.

ASSOCIATION: None

SUBMITTED: 18Mar64

ENCL: 00

SUB CODE: SS

NO REF SOV: 018

OTHER: 015

Card 2/2

1 3119-66 EPF(n) 2/EWT(m)/EWP(t) DIAAP/IJP(c) JD/JG
ACC NR: AT6010460 SOURCE CODE: UR/3119/65/000/003/0103/0110

AUTHOR: Layzan, V. B.; Shvarts, K. K.; Vitol, A. Ya.

ORG: none

TITLE: Effect of gamma radiation on decay of paramagnetic manganese centers in NaCl

SOURCE: AN LatSSR. Institut fiziki. Radiatsionnaya fizika, no. 3, 1965. Ionye kris-tally (Ionic crystals), 103-110

TOPIC TAGS: electron paramagnetic resonance, manganese, sodium chloride, impurity center, gamma irradiation

ABSTRACT: Electron paramagnetic resonance is used for studying the effect of gamma radiation on paramagnetic manganese centers in $\text{NaCl}-\text{MnCl}_2-\text{CdCl}_2$ crystals. The work was done to determine the qualitative changes in the local structure of impurity centers during gamma radiation and to develop methods for using electron paramagnetic resonance in studying radiation effects. A spectrometer with rf modulation in the 9Gc range was used for measuring the electron paramagnetic resonance spectra. The specimens were irradiated at room temperature. Curves are given for the kinetics of decay under ordinary conditions and under the effect of gamma radiation. It was found that the intensity of central lines is reduced more sharply by radiation than is the intensity of edge lines corresponding to Mn^{++} centers. The ratio of the number of

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centers in the cubic surrounding N_k to the centers with an associated vacancy N_v is approximately equal to:

$$\frac{N_k}{N_v} = \frac{1}{21} \left(\frac{I_c}{I_e} - \frac{27}{5} \right).$$

where I_c is the intensity of the central lines and I_e is the intensity of the edge lines. Some of the characteristics in the decay of paramagnetic manganese centers in NaCl crystals and the effect of irradiation on this decay process are discussed. Orig. art. has: 6 figures, 3 formulas. [14]

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 007/ OTH REF: 008
ATD PRESS: 4241

SHVARTS, K.K. [Svarcs, K.]; VITOL, A.Ya. [Vitols, A.]; KRUMIN[†], Yu.K.
[Krumins, J.]; LAYZAN, V.B. [Laizans, V.]; LYUSHINA, A.F.

Microstructure of manganese centers in sodium chloride crystals.

Izv. AN SSSR. Ser.fiz. 29 no.3:404-405 Mr '65.

(MIRA 18:4)

SHVARTS, L. A.

"Sensibilization Phenomena in Color Vision," Dokl. AN SSSR, 45, No.5, 1954

Inst. Psychology, Acad. Pedagogical Sci.

SHVARTS, L.A., KRAVKOV, S.V., and KEKCHEYEV, K.KH.,

On the factors which reduce the activities of the organs of vision and hearing.
Invest. Akad. ped. nauk. RSFSR, 1947, No.8.

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L. SHVARTS

Platonov, K.
Ocherki Psichologii Llyya Letchikov (Outlines of Psychology for
Aviators, by) K. Platonov i L. Shvarts. Moskva, Vojennoye Izd-vo Ministerstva
Vozruzhennykh Sil SSSR, 1943.
190 p. Diags.
Bibliographical footnotes.

AB 520135.

PA 43/43T102

SHVARTS, L. A.

USSR/Physics
Chromaticity
Color Standards

11 Jan 1948

"The Problem of Interaction Levels of Color Perception
Instruments," L. A. Shvarts, Inst Psychol, Acad of
Pedagogical Sci RSFSR, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LIX, No 2

Conducted experiments to come closer to solution of
problem of the nature of color. Used pharmacological
method. Prof S. V. Kravkov and Prof K. Kh. Kekcheyev
aided greatly in experiments. Submitted by Academi-
cian L. A. Orbeli, 5 Nov 1947.

43T102

GRANDE, L. A.

24316 GRANDE, L. A.. Vlijamije teorii o svetlosti na chuvstviteľnost' sluchha
pri razlichnykh sostoyaniyakh cheloveka. Problemy fiziol. Optiki, T. VII,
1946, s. 10-13. - Bibliogr: 7 nazy.

SC: Litopis, No. 32, 1946.

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CIA-RDP86-00513R001550320020-3

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27017 SYKES, L. A. Raymond Charles Shultz, Secretary. Foreign Service.
CIA, T. VII, 1951, S. 14-16.

SC: Intels, No. 33, 1969.

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CIA-RDP86-00513R001550320020-3"

SHVARTS, L.A.

Speech as a conditioned stimulus. Biul. eksp.biol. i med. 38 no.12:
15-18 D '54.
(MLRA 8:3)

1. Iz Instituta psichologii Akademii pedagogicheskikh nauk RSFSR,
Moskva.

(REFLEX, CONDITIONED,
word as stimulus)

SHVARTS, L. A.

"The Problem Concerning the Interaction of the First and Second Signal System," Iz. Ak. ~~Nauch~~ Pedagogicheskiky, No.53, pp. 171-180, 1954

Translation U-7880

Abstract A-53125, 23 Jul 56

SHVARTS, L.A.

Individual variations in conditioned reflex activity and
thresholds of peripheral vision. Probl. fiziol. opt. 11:44-47 '55.
(MLRA 9:6)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR.

(VISION,
peripheral, relation of thresholds to individual
variations of conditioned reflex funct. (Rus))

(REFLEX, CONDITIONED,
individual variations, relation to peripheral vision
thresholds (Rus))

SHVARTS, L.A.

Effect of training visual recognition of the shape of objects on
the absolute thresholds of sight. Vop. psichol. 2 no.4:74-82 Jl-
Ag '56. (MLRA 9:10)

1. Institut psikhologii Akademii pedagogicheskikh nauk
RSFSR, Moskva.
(Sight)

SHVARTS, L.A.

Permanent increase in absolute visual acuity [with summary in English].
Vop. psikhologii APN, Moskva.
Vop. psikhologii APN, Moskva.
(MIRA 11:12)

1. Institut psichologii APN, Moskva.
(Visual discrimination)

RAVICH-SHCHERBO, I.V.; SHVARTS, L.A.

Correlation of the initial and terminal speeds of nerve
processes as indexes of mobility. Vop.psikh. 5 no.5:
97-103 S-0 '59. (MIRA 13:3)

1. Institut psichologii APN RSYSR, Moskva.
(NERVOUS SYSTEM)
(EYE--ACCOMODATION AND REFRACTION)

SHVARTS, L.A.

Conditioned responses to verbal stimuli [with summary in English].
Vop. psichol. 6 no.1:86-98 Ja-F '60. (MIRA 13:6)

1. Institut psichologii APM RSFSR, Moskva.
(CONDITIONED RESPONSE)

DUNAYEVSKAYA, O.L. (Dunayev's'ka, H.L.), SHVARTS, L.B.

Machine for the inspection of warp-knit fabrics. Leh.prom.
no.1:35-36 Ja-Mr '64. (MIRA 19:1)

SHVARTS, L., arkitektor.

New types of external walls for meat combines. Mias. ind. SSSR
no. 2:29 '57.
(MIRA 10:5)

1. Leningradskiy filial Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy myasnoy promyshlennosti.
(Cold storage--Insulation)

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ROZEN, B.Ya., kand.khim.nauk; SHVARTS, L.M., arkhitektor.

Protecting structural components from corrosion. Bet.i zhel-bet.
(MIRA 10:11)
no.7:298 J1 '57.
(Concrete--Corrosion)

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CIA-RDP86-00513R001550320020-3"

SHVARTS, L.

Landscaping meat combine grounds. Mias. Ind. SSSR 28 no.6:35 '57.
(MIRA 11:1)

1. Leningradskiy institut Gipromyaso.
(Packing houses) (Landscape gardening)

ROSMN, B., kand. tekhn. nauk; SHVARTS, L., arkhitektor.

Using plastic materials in housing construction. Biul. tekhn. inform.
4 no.3:30-32 Mr '58. (MIRA 11:3)
(Plastics)

AFIYAN, E.; SHVARTS, L., arkitektor

Brief news. Mias. Ind. SSSR 29 no.5:56 '58. (MIRA 11:10)

1. Leningradskiy filial Gosudarstvennogo Instituta po proyektirovaniyu predpriyatiy myasnoy promyshlennosti (for Shvarts).
(Meat industry)

SHVARTS, L.M.

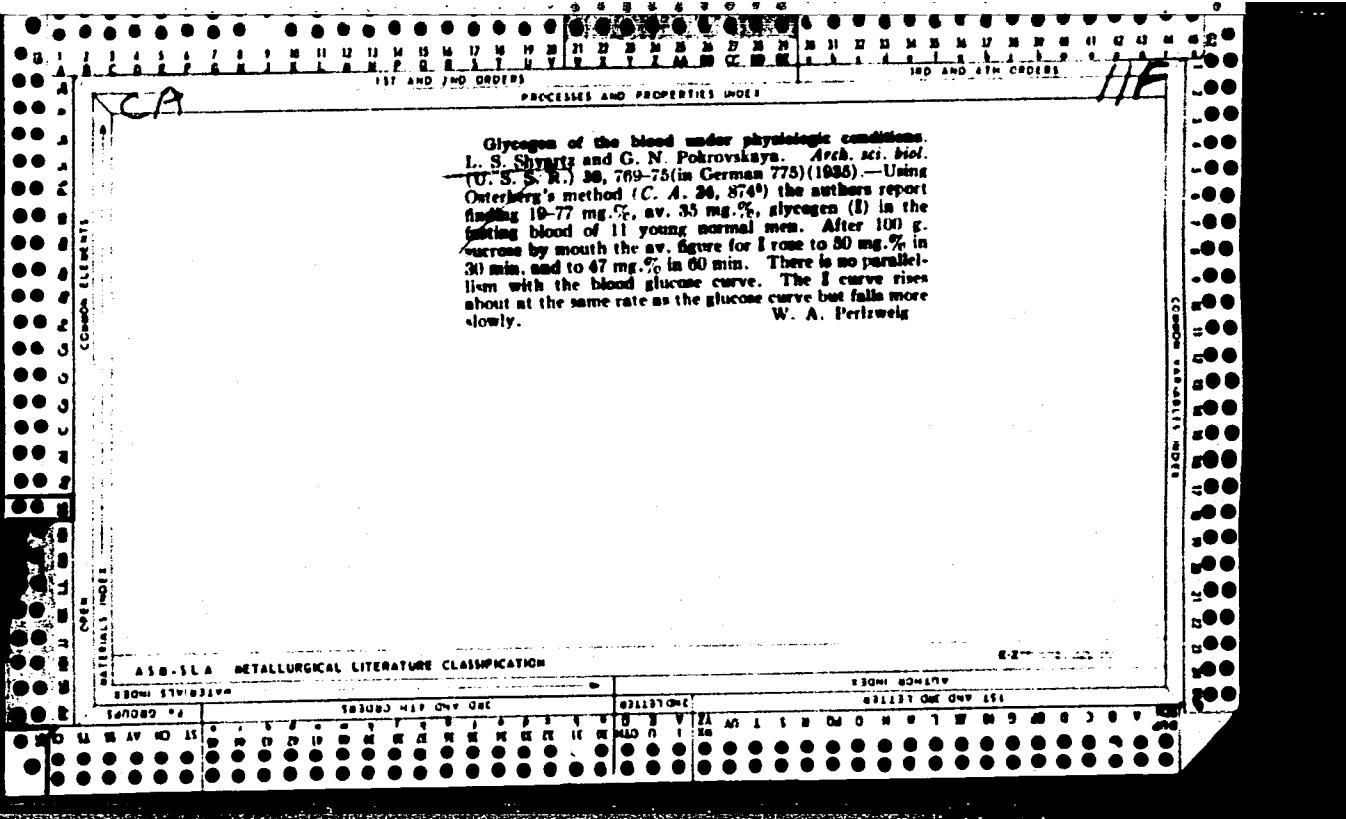
Using glued wood in construction. Biul.tekh.inform.po stroi.
5 no.10:31 0 '59. (MIRA 13:3)
(Wood, Compressed) (Plywood)

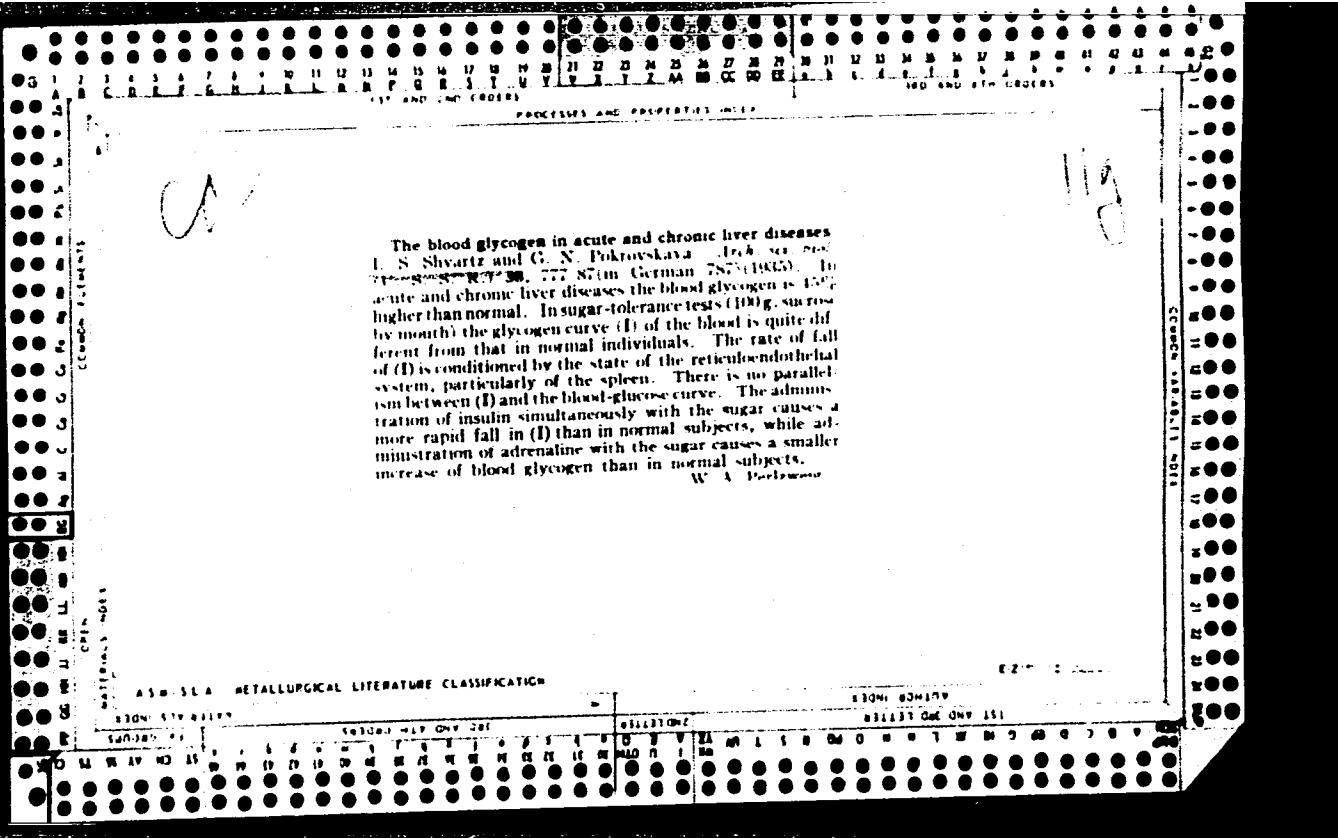
SHVARTS, L.M. arkitektor (Leningrad)

Plastics in the construction of hospital buildings. Gig. i san. 24
no.2:60-62 F '59. (MIRA 12:3)

(PLASTICS
in hosp. building construction (Rus))

(HOSPITALS
plastics in hosp. building construction (Rus))





The blood glycogen in diabetics. L. S. Shvartz and G. N. Pokrovskaya. Arch. sci. biol. U.S.S.R. 38, 780 (in German 743) (1935). The blood glycogen of diabetics is 50% higher than in normal subjects, the av. being 50 mg. % It depends on the severity of the disease, being higher in light cases and lower in severe cases. The curve of (1) in the blood is on a higher level after 50 g. of sucrose than after 100 g. This is explained on the theory that the larger amt. of sugar exhausts the insulin supply and thus lowers glycogenesis. W. A. P.

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ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

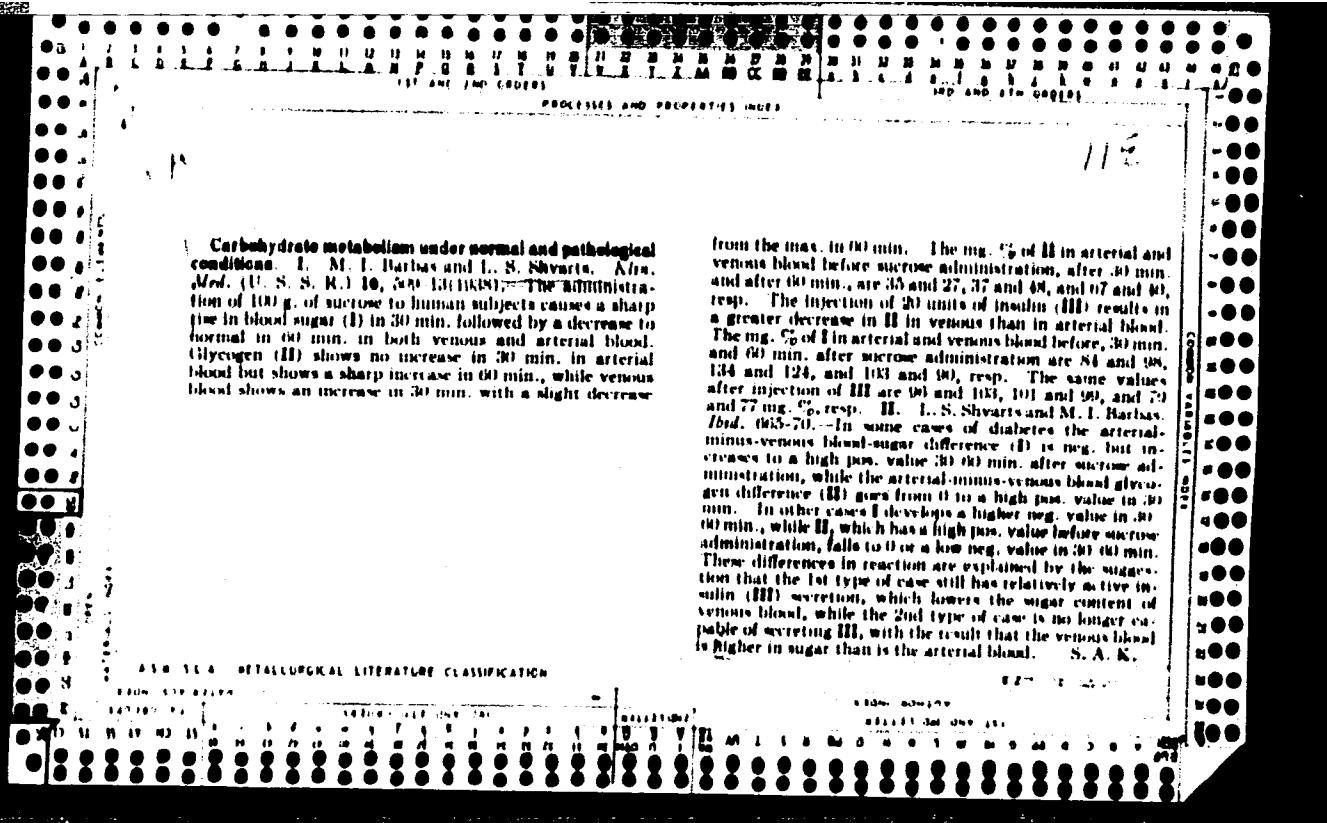
Classification

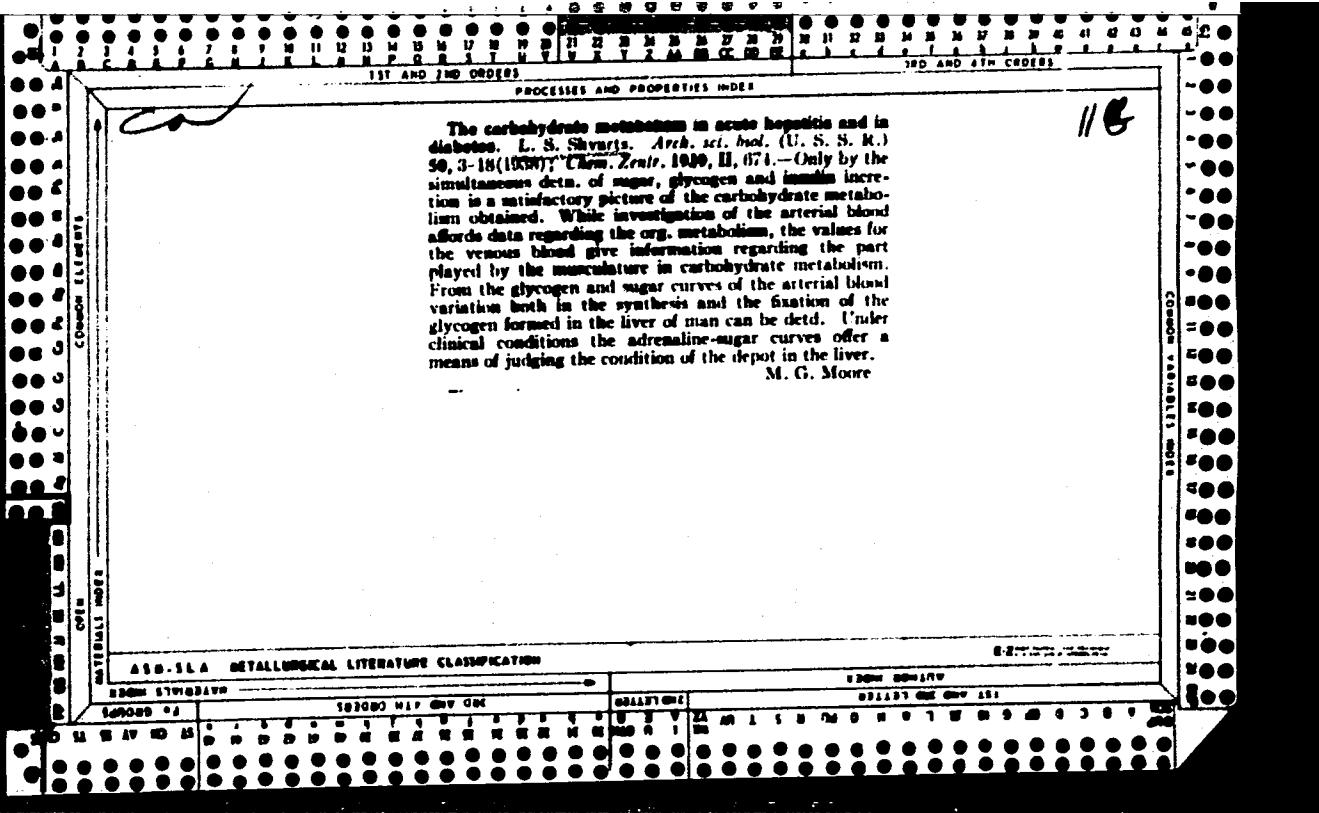
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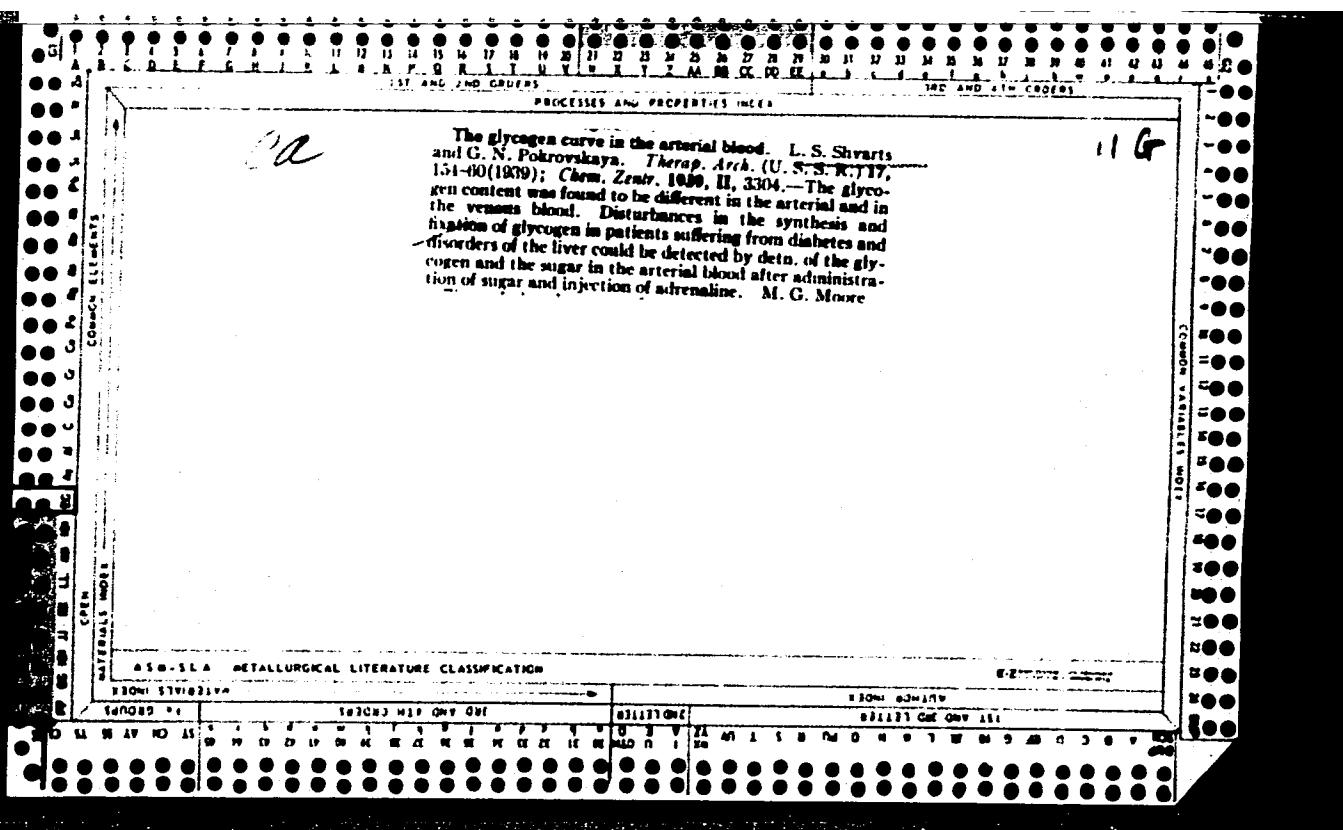
Editorial

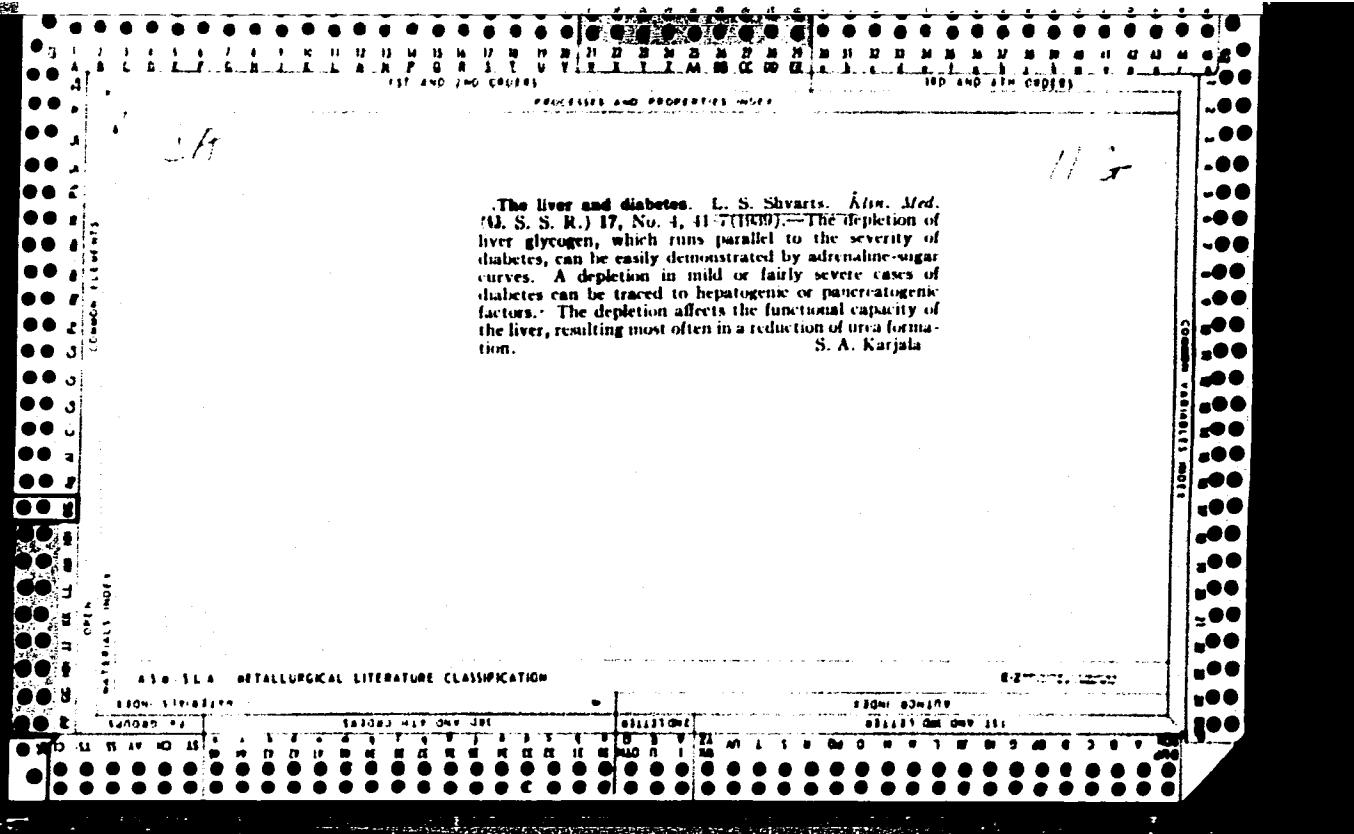
From Bowline

Editorial Date









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THE EFFECT OF INTRAVENOUS INJECTIONS OF ARGININE ON UREA FORMATION. L. S. Shvarts and M. I. Krivskii. *Arch. Gen. Med.* (U.S.S.R.) 55, No. 2, 41-9 (in English, 1963).

The intravenous injection of 1 g. of arginine or glycine into acute or chronic hepatitis patients causes an increase in blood urea that is slight compared with that seen in subjects with normal livers and thus may be used as a diagnostic measure. S. A. Karjala

ASIA-EA-A METACOGICAL LITERATURE CLASSIFICATION

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SA KAFS, H. S.

23625 FILE DATED 10/10/1949 BY THE FBI BUREAU, WASH. D. C. FROM THE
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SC: LEMARIS' NO. 31. 1949

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SHVARTS, L. S.

Medicine

Botkin's disease. Saratovskoe obl. gos. izd-vo, 1950.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

SHVARTZ L. S. FPOF.

PA 194T81

USSR/Medicine - Virus Diseases

Oct 51

"Experimental Hepatitis (Preliminary Report),"
Prof L. S. Shvarts, K. F. Vladimirova, Hosp Therapeu-
tic Clinic, Saratov Med Inst

"Klin Med" Vol XXIX, No 10, pp 51-54

1. Introduction into guinea pigs of gastric fil-
trates from patients suffering from Botkin's
disease [infectious hepatitis] caused in the
animals disturbances in the respiratory tract,
symptoms of dyspepsia (loss of appetite, diarrhea,
vomiting) and, in some cases, jaundice. 2. Mi-
croscopic study showed the presence of an

194T81

USSR/Medicine - Virus Diseases (Contd)

Oct 51

infectious-allergic condition of the liver. 3.
The infectious character of this disease is con-
firmed by the fact that in guinea pigs which have
not received the filtrate of gastric juice, it
still results from contact with diseased guinea
pigs.

194T81

SHVARTS, L.S.

[Botkin's disease] Bolezn' Botkina. Izd. 2., ispr. i dop. Saratovskoe,
Knizhnoe izd-vo, 1954. 194 p.
(Hepatitis, Infectious) (MIREA 8:2)

СИВАЧЕВСКИЙ, М.А. Professor (Soviet)

"Cardiac lesions in rheumatic fever; according to electrocardiographic data" by M.A.Yasinevskii, G.F.Bolko. Reviewed by L.S. Shvarts. Vrach. delc no.2:1901 S '57. (MIPh 10:2)

(RHEUMATIC HEART DISEASE)
(YASINEVSKII, M.A.) (BOLKO, G.F.)

SHVARTS, L.S., prof. (Saratov)

"Diseases of the liver and biliary tract" by A.L.Miasnikov.
Reviewed by L.S.Shvarts. Klin.med. 36 no.2:155-158 P '58.
(LIVER--DISEASES) (MIRA 11:4)
(BILIARY TRACT--DISEASES) (MIASNIKOV, A.L.)

BYREYEV, P.A., prof.; VASHEMOV, L.A., prof.; VOLYNSKIY, B.G., dotsent; GERASIMOV, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY, G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent; KRUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent; LOBKOV, I.S., doktor [deceased]; LUKOVA, A.I., prof.; MAKHLIN, Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.; SOLUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; TRET'YAKOV, K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent; FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT, A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med.nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, L.S., prof.; SHUSTERMANN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L., kand.med.nauk; NIKITIN, B.A., dotsent, red.; AFANAS'YEV, I.A., red.; LUKASHEVICH, V., tekhn.red.

[Concise medical reference book] Kratkii terapevticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p. (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov).
(MEDICINE--HANDBOOKS, MANUALS, ETC.)

SPIRIDONOV, A.N.; SHVARTS, L.S.; LARINA, V.S.; NIKIMOROV, B.I.

Late results of surgery in gastric and duodenal ulcer. *Kaz. med.*
zhur. 40 no. 5:25-29 S-O '59. (MIRA 13:7)

1. Iz gospital'nykh klinik Saratovskogo meditsinskogo instituta.
(PEPTIC ULCER)

SHVARTS, L.S.; YUDINOVA, L.S.; EYBER, N.S.

Eosinopenic reaction and the amount of 17-ketosteroids in the urine following treatment with steroid hormones. Kaz. med. zhur. no. 4:8-11 Jl-Ag '60. (MIRA 13:8)

1. Iz gospital'noy terapeuticheskoy kliniki (zav. - prof. L.S. Shvarts) lechenbnogo fakul'teta Saratovskogo meditsinskogo instituta.
(HORMONE THERAPY) (EOSINOPHILES) (STEROIDS)

SHVARTS, L.S.

Research on diabetes mellitus. Biul. Uch. med. sov. 2 no.4:23-26
Jl-Ag '61. (MIA 14:10)
(DIABETES--RESEARCH)

SHVARTS, L.S., prof. (Saratov)

Regulatory disorders in diabetes mellitus. Probl.endok. i gorm.
7 no.3:89-95 '61. (MIRA 14:9)

1. Iz gospital'noy terapevтической клиники (zav. - prof. L.S.
Shvarts) lechebnogo fakul'teta.
(DIABETES)

SHVARTS, L. S., prof.; LOBANOV, V. N.; LEBEDEVA, Z. G.; YUDANOVA, L. S.

Changes of the myocardium in Botkin's disease. Terap. arkh. no.9:
(MIRA 15:2)
71-78 '61.

1. Iz kafedry gospital'noy terapii (zav. - prof. L. S. Shvarts)
lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.

(HEPATITIS, INFECTIONS) (HEART-DISEASES)

SHVARTS, L.S. (Saratov)

"Problems in the pathology of the biliary tract." Reviewed by
L.S.Shvarts. Kaz.med.zhur. no.4:104-105 Jl-Ag '621. (MIRA 15:8)
(BILIARY TRACT--DISEASES)

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SHVARTS, L.S., prof. (Saratov)

Gall stones. Zdorov'e 8 no.8:14-15 Ag '62.
(CALCULI, BILLARY)

(MIRA 15:8)

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RODIONOV, M.; SHVARTS, L.S., prof., red.; NIKITIN, B.A., dots., red.;
LUKASHEVICH, V., tekhn. red.

[Emergency aid; a brief manual for the regional physician]
Neotlozhnaia pomoshch'; kratkii spravochnik uchastkovogo
vracha. Pod red. L.S.Shvartsa, B.A.Nikitina. Izd.2., 1spr.
i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1963. 458 p.
(MIRA 16:9)

(FIRST AID IN ILLNESS AND INJURY--HANDBOOKS, MANUALS, ETC.)

APROSINA, Z.G., kand. med. nauk; AFANAS'Yeva, K.A., kand. med. nauk; AKHIEZER-KEREMOVICH, A.M., prof.; BLYUGER, A.F., doktor med. nauk; BONDAR', Z.A., prof.; VASILENKO, V.Kh., prof.; KIKODZE, I.A., kand. med. nauk; LINDEBNRATEN, L.D., prof.; LOGINOV, A.S., kand. med. nauk; MANSUROV, Kh.Kh., prof.; NAZARETYAN, Ye.L., kand. med. nauk; NOGALLER, A.M., prof.; PLOTNIKOV, N.N., prof.; SEMENDYAYEVA, M.Ye., kand. med. nauk; TAREYEV, Ye.M., prof.; TAREYEV, I.Ye., kand. med. nauk; TER-GRIGOROVA, Ye.N., prof.; CHERNYSHEVA, Ye.V., kand. med. nauk; SHVARTZ, L.S., prof.; MYASNIKOV, A.L., prof., zam. otv. red.; BOGORODITSKY, V.A., red.; SEMENDYAYEVA, M.Ye., red.

[Multivolume manual on internal diseases] Mnogotomnoe rukovodstvo po vnutrennim bolezniam. Moskva, Meditsina, Vol. 5. 1965. 724 p. (MIRA 18:9)

I. Dostupitel'nyy chlen AMN SSSR (for Tareyev, Ye.M., Vasilenko, Myasnikov).

SVERAKOV, I.S.; SHUB, G.M.; VIBANOVA, L.S.

Immunology of atherosclerosis; preliminary report. Kardiologiya
5 no.2:56-60 Mr-Apr '65. (KIRA 18:7)

I. Saratovskiy meditsinskiy institut.

SHVARTS, LEONID VLADIMIROVICH

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OFORMLENIYE RASCHETNYKH I KREDITNYKH OPERATSIIY (FORMATION OF ACCOUNTING
AND CREDIT OPERATIONS) MOSKVA, GOSFINIZDAT, 1956.

143 P. TABLES.

SHVARTS, L.Ya.

Maps of similar strata as a means of more precisely defining
tectonics. Izv. AN Turk.SSR no.1:83-84 '55. (MLRA 9:5)

1. Turkmeneskiy filial VNII.
(Petroleum geology)

SHVARTS, L.Ya.

Possible oil resources of the Kara-Tepe (Khuday-Dag) area in the Balkhan region. Izv. AN Turk. SSR no.6:89-92 '57. (MIRA 11:1)

1. Institut geologii AN Turkmeneskoy SSR i Turkmenaskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta.
(Balkhan region--Petroleum geology)

SHVARTS, L.Ya.; SHVARTS, T.V.

Factors governing the formation of Balkhan structures in south-western Turkmenia. Geol. nefti 2 no.7:25-34 J1 '58. (MIRA 11:8)
(Balkhan Range—Geology, Structural)

MARKOVA, L.P.; SHVARTS, L.Ya.

Profile stratigraphy of the new prospects of Kotur-Tepe and Okarem
in southwestern Turkmenia. Izv. AN Turk. SSR no.4:13-19 '58.
(MIHA 11:10)
(Kotur-Tepe--Petroleum geology) (Okarem--Petroleum geology)

SHVARTS, L.Ya.

Question of the oil potential of the sector to the southwest of
the Kyzyl-Kum deposits. Izv. AN Turk. SSR. no.1:112-115 '59.
(MIRA 12:5)
(Kyzyl-Kum--Petroleum)

SHVARTS, L.Ya.

Correlation of cross sections of the producing fromation of the
Apsheron Peninsula and the red bed of western Turkmenia; follow-up
to the article by G. I. Gorin. Azerb. neft. khoz. 39 no.1:16-17
(MIRA 14:8)
Ja '60.

(Apsheron Peninsula--Geology, Stratigraphic)
(Turkmenistan--Geology, Stratigraphic)

SHVARTS, L. YA., CAND GEOL-MINER SCI, "PROSPECTS OF ^{the}
 PETROLEUM-AND GAS ^{-bearing} POTENTIAL OF THE PLIOCENE DEPOSITS OF
 THE WESTERN TURKMEN LOWLANDS. (IN THE LIGHT OF THE COM-
^{cross section}
 PARISONS BETWEEN THE ^{red} PROFILES OF THE PRODUCTIVE AND ~~non-~~
^{beds} basic laws ^{-bearing}
 NOZEN SERIES AND THE PRINCIPAL TENDENCIES OF THE GEOLOGI-
 CAL STRUCTURE AND PETROLEUM-AND GAS ^{-bearing} POTENTIAL OF THE PRI-
 BALKHANSKIY RAYON). BAKU, 1961. (INST GEOL ACADEM SCI
 AZSSR. TURKMEN AFF OF ALL-UNION PETROLEUM AND GAS SCI RES
 INST "TF VNII"). (KL, 2-61, 202).

-57-

SHWARTS, M. [Szwarc, M.]

Advances in the field of polymerization. Usp. khim. 29 no.12:1498-
1524 D '60.
(Polymerization)

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SHVARTS, M.A., inzh.

The first all-Union exhibition of industrial aesthetics.
Vest.mashinostr. 45 no.11:80 N '65.

(MIRA 18:12)

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SHVARTS, M.A., inzh.

At the International Exhibition "Chemistry in Industry,
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